

Preventing Dust Explosions Quiz

Name: _____ Date: _____

Multiple Choice (circle the correct answer):

1. The following are required in order for a dust explosion to occur:
 - a. Ignition Source
 - b. Suspension of Dust Particles
 - c. Oxygen
 - d. Confinement
 - e. All of the above.

2. Concentrations of dust great enough for a dust explosion to occur are generally found in:
 - a. Bucket elevators
 - b. Inside enclosed conveyors
 - c. At transfer and discharge points
 - d. All of the above.

3. Types of dust explosion ignition sources include:
 - a. Hot work
 - b. Ferrous (tramp) metal
 - c. Faulty electrical equipment
 - d. Explosion suppression systems
 - e. A, B and C

True or False:

4. _____ The effects of confinement can be decrease explosion venting.
5. _____ Secondary explosions are often more powerful than the primary explosion.
6. _____ Contractors have caused dust explosions in grain elevators.
7. _____ The OSHA Grain Handling Standard requires that fugitive grain dust accumulations exceeding 1/8 inch within 35 feet of inside bucket elevators be removed immediately.
8. _____ When using compressed air for cleaning, all machinery that presents an ignition source needs to be shut-down.
9. _____ Receiving pit openings must not exceed 3.5 inches.
10. _____ Preventative maintenance and equipment inspections do not need to be documented.

Quiz Key

1. E
2. D
3. E
4. True
5. True
6. True
7. True
8. True
9. False (2.5 inches)
10. False